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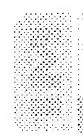
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Proceedings of the IEEE, Volume: 87, Issue: 7, July 1999
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Wong, J.L.; Kirovski, D.; Potkonjak, M.;
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Chun-Hsiang Huang; Ja-Ling Wu;
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5 Spatial domain digital watermarking of multimedia objects for buyer authentication

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7 Applying informed coding and embedding to design a robust high-capacity watermark

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8 Optimization-intensive watermarking techniques for decision problem

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Pages:119 - 127

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9 Local watermarks: methodology and application to behavioral synthesis

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10 Steganalysis using image quality metrics

Avcibas, I.; Memon, N.; Sankur, B.;
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Jengnan Tzeng; Wen-Liang Hwang; I-Liang Chern;
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12 Multichannel watermarking of color images

Barni, M.; Bartolini, F.; Piva, A.;

Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 12 , Issue: 3 , March 2002

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Image Processing, IEEE Transactions on , Volume: 9 , Issue: 1 , Jan. 2000

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Chiou-Ting Hsu; Ja-Ling Wu;

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Ohbuchi, R.; Masuda, H.; Aono, M.;

Selected Areas in Communications, IEEE Journal on , Volume: 16 , Issue: 4 , Jan. 1998

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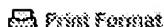
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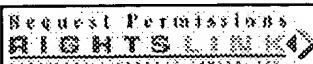
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**Progressive image watermarking**

Trista Pei-Chun Chen Tsuhan Chen

Dept. of Electr. & Comput. Eng., Carnegie Mellon Univ., Pittsburgh, PA, USA;

This paper appears in: Multimedia and Expo, 2000. ICME 2000. 2000 IEEE International Conference on

Meeting Date: 07/30/2000 - 08/02/2000

Publication Date: 30 July-2 Aug. 2000

Location: New York, NY USA

On page(s): 1025 - 1028 vol.2

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Abstract:

Progressive transmission of images is very useful in many applications, especially image transmission over the Internet. To view an image, people would want to see part of the image while the image transmission is in progress, rather than having to wait until the end of the image transmission. On the other hand, the ease of transmission and copying of images creates the need to use digital watermarking to embed the copyright information seamlessly into the media. We propose a progressive image watermarking scheme. In this scheme, the watermark is embedded in such a way that we can still see part of it even when the watermarked image is still being transmitted. As the transmission progresses, the retrieved watermark has a decreasing bit error rate. Our proposed methods not only transmit the watermarked image progressively, but also select watermark embedding locations robust to various attacks.

Index Terms:

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